Sanctuary Condition Reports

Supporting
System-Wide Monitoring
(SWiM)



Water Quality



Habitat



Living Resources



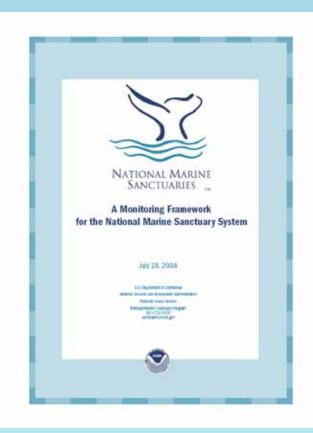




SWiM Highlights

"A Monitoring Framework for the National Marine Sanctuary System"

- Consistent approach to the design and reporting process of monitoring programs for all sites that enables integration of information into a system-wide monitoring product.
- Tailored monitoring at the local level to <u>track</u> and report the status and trends of natural and cultural resources and human uses.



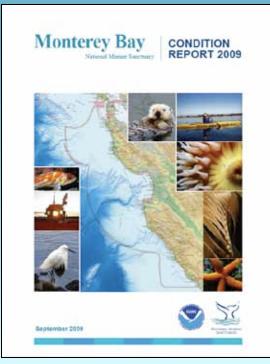


Condition Reports

- Goals of Report:
 - Assess the condition of the site and the system
 - Determine if system is achieving its resource protection and improvement goals as reflected in program performance measures
- Summary of:

NATIONAL MARINE

- MBNMS resources
- pressures on those resources
- current status and trends
 - management responses



Who is the Audience?

- A reporting tool for policy makers, particularly within NOAA and DOC
- Complements new management plan by identifying issues for priority attention
- Identifies information gaps for research and management
- Portions of condition report can be used as education and outreach products



Condition Reports Structure

- Site History & Resources
- Pressures (Stressors & Issues) on the Sanctuary
- Status & Trends (State) of Sanctuary Resources
- Sanctuary's Response to Pressures
- Literature Cited
- Appendices Explanation of Standardized Questions
 Report Development and Review Process



Condition Reports Structure

- Site History & Resources
- Pressures (Stressors & Issues) on the Sanctuary
- Status & Trends (State) of Sanctuary Resources
- Sanctuary's Response to Pressures
- Literature Cited
- Appendices Explanation of Standardized Questions Report Development and Review Process



Pressures

- Coastal development and population growth
- Pollutants and contaminants
- Marine debris
- Commercial and recreational fishing
- Vessel traffic
- Non-native species











Condition Reports Structure

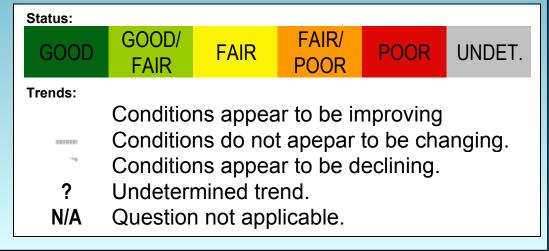
- Site History & Resources
- Pressures (Stressors & Issues) on the Sanctuary
- Status & Trends (State) of Sanctuary Resources
- Sanctuary's Response to Pressures
- Literature Cited
- Appendices Explanation of Standardized Questions Report Development and Review Process



Status and Trends

- 17 standardized questions
- 4 resource categories:
 - Water Quality (4)
 - Habitat (4)
 - Living Resources (6)
 - Maritime Archaeological Resources (3)
- "status & trends"
 reporting system
 developed by
 ONMS

NATIONAL MARINE



Standardizing the Questions

Water **Stressors**

1. Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?

This is meant to capture shifts in condition arising from certain changing physical processes and anthropogenic inputs. Factors resulting

in regionally accelerated rates of change in water temperature, salinity dissolved oxygen, or water clarity could all be judged to reduce

water quality. Loca can affect light pen resource quality. H hydrocarbons, heav Certain biotoxins, si

Description of Findings Statements

disposal, and living cides, one. any

of these contaminants can affect marine life by direct contact or ingestion, or through bioaccumulation via the food chain.

[Note: Over time, accumulation in sediments can sequester and concentrate contaminants. Their effects may manifest only when the sediments are resuspended during storm or other therefice events. In such cases, reports of status should be made under Question 7 – Habitat contaminants.]

Good/Fair
Conditions do not appear to have the potential to negatively affect living resources or habitat quality.

Selected conditions may preclude full development of living resource assemblages and habitats, but are not likely to cause substantial or persistent declines.

Fair
Selected conditions may inhibit the development of assemblages, and may cause measurable but not severe

Selected conditions may inhibit the development of assemblages, and may cause measurable but not severe declines in living resources and habitats.

Selected conditions have caused or are likely to cause severe declines in some but not all living resources and habitats.

Selected conditions have caused or are likely to cause severe declines in most if not all living resources and habitats.



Description of findings statement for a given status rating

(e.g., Good)

is specific to the question being asked

Available in Appendix A



Habitat Structure

6. What is the condition of biologically structured habitats and how is it changing?

Good Habitats are in pristing or near-pristing condition and are unlikely to preclude full community development.

Good/Fair Selected habitat loss or alteration has taken place, precluding full development of living resources, but it is unlikely to cause substantial or persistent degradation in living resources or water quality.

Fair Selected habitat loss or afteration may inhibit the development of fiving resources and may cause measurable but not severe declines in living resources or water quality.

Fair/Poor Selected habitat loss or afteration has caused or is likely to cause severe declines in some but not all living resources or water quality.

Selected habitat loss or alteration has caused or is likely to cause severe declines in most if not all living resources or water quality.

Living Resources Biodiversity

Poor

9. What is the status of biodiversity and how is it changing?

Good Biodiversity appears to reflect pristine or near-pristine conditions and promotes ecosystem integrity (full community development and function).

Good/Fair Selected biodiversity loss has taken place, precluding full community development and function, but it is unlikely to cause substantial or persistent degradation of ecosystem integrity.

ir Selected biodiversity loss may inhibit full community development and function, and may cause measurable but not severe degradation of ecosystem integrity.

Fair/Poor Selected biodiversity loss has caused or is likely to cause severe declines in some but not all ecosystem components and reduce ecosystem integrity.

Poor Selected biodiversity loss has caused or is likely to cause severe declines in ecosystem integrity.

Living Resources Key Species

2. What is the status of key species and how is it changing?

Good Key and keystone species appear to reflect pristine or near-pristine conditions and may promote ecosystem integrity (full community development and function).

Good/Fair Selected key or keystone species are at reduced levels, perhaps precluding full community development and function, but substantial or persistent declines are not expected.

Fair The reduced abundance of selected keystone species may inhibit full community development and function and may cause measurable but not severe degradation of ecosystem integrity; or selected key species are at reduced levels, but recovery is no subtraction.

Fair/Poor The reduced abundance of selected keystone species has caused or is likely to cause severe declines in some but not all ecosystem components, and reduce ecosystem integrity; or selected key species are at substantially reduced levels, and prospects for recovery are uncertain.

Poor The reduced abundance of selected keystone species has caused or is likely to cause severe declines in ecosystem integrity, or selected key species are a severely reduced levels, and recovery is unlikely.

System-wide 'Report Card'

Trends:

Conditions appear to be improving
Conditions appear to be declining.

Conditions appear to be declining.

N/A Question not applicable.

	Daoif	ic Islands Re	gion				West Coa	et Pagion				90	utheast Reg	ion	No.	rtheast Reg	ion
	Facil		gion			Gulf of the			Monterey Bay	v		30	unicasi Key	1011	NO	i ilieasi rieg	1011
Status of Resources	Papahanau- mokuakea	Hawaiian Islands Humpback Whale	Fagatele Bay	Olympic Coast	Cordell Bank	Coastal and Offshore	Estuarine and Lagoon	Offshore	Nearshore	Estuarine	Channel Islands	Gray's Reef	Florida Keys	Flower Garden Banks	Stellwagen Bank	Monitor	Thunder Bay
WATER																	
Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality and how are they changing?		•	В	?	?	=	?	В			?	?	?		=	=	
What is the eutrophic condition of sanctuary waters and how is it changing?						?	?					?	+++				
3 Do sanctuary waters pose risks to human health and how are they changing?		•	?	-		-	?	?	?	?	-	-		В.	-		
What are the levels of human activities that may influence water quality and how are they changing?		=			?			2	?	?	-	-		-	-		
HABITAT																	
What is the abundance and distribution of major habitat types and how is it changing?			?	-	?		=	?	-		?	?	-	-	-		
6 What is the condition of biologically structured habitats and how is it changing?		N/A	-	?	?	?	-	?	=		****	?	-	=	=	?	
7 What are the contaminant concentrations in sanctuary habitats and how are they changing?	-	-	-		?		?	-	Е	Е		-	?	?	-	-	
8 What are the levels of human activities that may influence habitat quality and how are they changing?		-		2			-		?	-		?	-	-	-	-	
LIVING RESOURCES																	
g What is the status of biodiversity and how is it changing?				?	100			?	?	?	?	?		=		?	
What is the status of environmentally sustainable fishing and how is it changing?		N/A			12									?	-	N/A	
What is the status of non-indigenous species and how is it changing?	?			i.	?		?			-	12		-	-			
What is the status of key species and how is it changing?	?		П	?		?		-			-			?	П	?	
What is the condition or health of key species and how is it changing?	?			?	-		?			?	?	?				?	
What are the levels of human activities that may influence living resource quality and how are they changing?			?							?		?		?			
MARITIME ARCHAEOLOGICAL RESOURCES																	
What is the integrity of maritime archaeological resources and how is it changing?	E	-	N/A	?	?	?	?	?	?	?		N/A		N/A	Е	=	
Do maritime archaeological resources pose an environmental hazard and is this threat changing?		?	N/A	П	?			В				N/A		N/A		-	
What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?			N/A	?	?	?	?	?	?	-	2	-		N/A		-	

Status and Trends Process at MBNMS

- Held scientific workshops in May 2007:
 - Completed Condition Tables with judgements on status and trends
 - Received information for inclusion in the State of the Sanctuary Resources section
- Four sessions one for each resource category
 - Water Quality
 - Habitat
 - Living Resources
 - Maritime Archaeological Resources



Status and Trends Science Workshops

- Scientist studying the resources were invited
 - Academic, agency, non-profit organizations, industry consultants
- Questions were answered for 3 environments
 - Estuary (Elkhorn Slough)
 - Nearshore (shoreline to 30 meter isobath)
 - Offshore (30 meter isobath to offshore boundary)
- Process
 - Discuss/debate meaning of the questions, ratings, and availability of data
 - Agree to a judgment on the status and trend
 - Express basis for judgment for supporting text









Status and Trends Supporting Text

- A summary of findings based on available monitoring and characterization data, expert opinion
- Not the place for presenting bulk monitoring data
- No monitoring data was collected to specifically answer these questions
- Quantitative data were not available to address some questions









Review

1. Initial: workshop participants

2. Invited

- Workshop invitees
- Advisory councils: SAC, RAP
- Agencies: ONMS region, NMFS, CDFG

3. Peer-review

- Required by OMB Influential Scientific Information
- Review Requirements
 - Disclosure of comments posted on web site
 - Disclosure of reviewers



Final ratings determined by sanctuary staff

Status and Trend Ratings

Status:	GOOD/	FAIR	FAIR/	POOR	UNDET.			
GOOD	FAIR	IAII	POOR	1 001	UNDL1.			
Trends:								
Conditions appear to be improving								
	 Conditions do not apepar to be changing. 							
Conditions appear to be declining.								
? Undetermined trend.								
N/A								

Summary Table

- Each row is a question
- Status and trend rating for 3 environments
 - Offshore
 - Nearshore
 - Estuarine
- Remember definition of the status rating differs for each question



		N/A Qu	estion not applicab	ole.
#	Questions/Resources	Offshore Rating	Nearshore Rating	Estuarine Rating
WAT	ER		9	9
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?	П		
2	What is the eutrophic condition of sanctuary waters and how is it changing?			-
3	Do sanctuary waters pose risks to human health?	?	?	?
4	What are the levels of human activities that may influence water quality and how are they changing?		?	?
HAB	ITAT			
5	What is the abundance and distribution of major habitat types and how is it changing?	?	_	
6	What is the condition of biologically-structured habitats and how is it changing?	?	_	
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?			
8	What are the levels of human activities that may influence habitat quality and how are they changing?		?	_
LIVIN	IG RESOURCES			
9	What is the status of biodiversity and how is it changing?	?	?	?
10	What is the status of environmentally sustainable fishing and how is it changing?			
11	What is the status of non-indigenous species and how is it changing?	-		_
12	What is the status of key species and how is it changing?	-	_	
13	What is the condition or health of key species and how is it changing?		-	?
14	What are the levels of human activities that may influence living resource quality and how are they changing?			?
MAR	ITIME ARCHAEOLOGICAL RESOURCES			
15	What is the integrity of known maritime archaeological resources and how is it changing?	?	?	?
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?		_	_
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?	_

Status:							
GOOD	GOOD/ FAIR	FAIR	FAIR/ POOR	POOR	UNDET.		
Trends:	Trends:						
	Conditions appear to be improving						
_	Conditio	ns do no	t apepar	to be cha	anging.		
1.0	Conditions appear to be declining.						
?	Undetermined trend.						
N/A	Question	not app	licable.				

Generally rated **Good to Fair**

 Monitoring of nearshore habitats indicate generally healthy conditions and populations



			determined trend. estion not applicat
#	Questions/Resources	Offshore Rating	Nearshore Rating
WAT			
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?		E
2	What is the eutrophic condition of sanctuary waters and how is it changing?		
3	Do sanctuary waters pose risks to human health?	?	?
4	What are the levels of human activities that may influence water quality and how are they changing?	E	?
ABI	TAT		
5	What is the abundance and distribution of major habitat types and how is it changing?	?	-
6	What is the condition of biologically-structured habitats and how is it changing?	?	(- <i>)</i>
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?	i i	
	What are the levels of human activities that may influence habitat quality and how are they changing?		?
.IVIN	G RESOURCES		
	What is the status of biodiversity and how is it changing?	?	?
10	What is the status of environmentally sustainable fishing and how is it changing?	E.	
11	What is the status of non-indigenous species and how is it changing?	-	
12	What is the status of key species and how is it changing?	_	-
13	What is the condition or health of key species and how is it changing?	i i	_
4	What are the levels of human activities that may influence living resource quality and how are they changing?		B
AR	TIME ARCHAEOLOGICAL RESOURCES		
5	What is the integrity of known maritime archaeological resources and how is it changing?	?	?
6	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?	П	-
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?

Status:								
GOOD	GOOD/ FAIR	FAIR	FAIR/ POOR	POOR	UNDET.			
Trends:	Trends:							
	Conditions appear to be improving							
	Conditions do not apepar to be changing.							
	Conditions appear to be declining.							
?	Undetermined trend.							
N/A	Question not applicable.							

Generally rated **Good to Fair**

- Monitoring of nearshore habitats indicate generally healthy conditions and populations
- Few **non-native species** present, though some spread in the **nearshore** environment



		? N/A	termined trend tion not applica	
#	Questions/Resources	Offshor Rating	Nearshore Rating	
WATI				
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?			
2	What is the eutrophic condition of sanctuary waters and how is it changing?			
3	Do sanctuary waters pose risks to human health?	?	?	
4	What are the levels of human activities that may influence water quality and how are they changing?		?	
HABI	TAT			
5	What is the abundance and distribution of major habitat types and how is it changing?	?	_	
6	What is the condition of biologically-structured habitats and how is it changing?	?	- /	
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?			
8	What are the levels of human activities that may influence habitat quality and how are they changing?		?	
LIVIN	G RESOURCES			
9	What is the status of biodiversity and how is it changing?	?	?	
10	What is the status of environmentally sustainable fishing and how is it changing?			
11	What is the status of non-indigenous species and how is it changing?	_		
12	What is the status of key species and how is it changing?	_	_	
13	What is the condition or health of key species and how is it changing?		-	
14	What are the levels of human activities that may influence living resource quality and how are they changing?			
MARI	TIME ARCHAEOLOGICAL RESOURCES			
15	What is the integrity of known maritime archaeological resources and how is it changing?	?	?	
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?		_	
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?	

ſ	Status:								
	GOOD	GOOD/ FAIR	FAIR	FAIR/ POOR	- DUUD HIMIDEL				
	Trends:								
	Conditions appear to be improving								
		 Conditions do not apepar to be changing. 							
		Conditions appear to be declining.							
	? Undetermined trend.								
	N/A	Question							

Generally rated **Good to Fair**

However

• water quality nearshore reduced in some areas and during some seasons by inputs of nutrients and contaminants; warnings/ closures due to pathogens or biotoxins



			determined trend. estion not applicat
#	Questions/Resources	Offshore Rating	Nearshore Rating
VAT			
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?		E
2	What is the eutrophic condition of sanctuary waters and how is it changing?	i i	
3	Do sanctuary waters pose risks to human health?	?	?
1	What are the levels of human activities that may influence water quality and how are they changing?	T.	?
ΔB	TAT		
5	What is the abundance and distribution of major habitat types and how is it changing?	?	_
ô	What is the condition of biologically-structured habitats and how is it changing?	?	_
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?		-
3	What are the levels of human activities that may influence habitat quality and how are they changing?		?
IVI	IG RESOURCES		
)	What is the status of biodiversity and how is it changing?	?	?
10	What is the status of environmentally sustainable fishing and how is it changing?	E.	
11	What is the status of non-indigenous species and how is it changing?	_	
12	What is the status of key species and how is it changing?	_	-
13	What is the condition or health of key species and how is it changing?	i i	-
14	What are the levels of human activities that may influence living resource quality and how are they changing?		
IAR	ITIME ARCHAEOLOGICAL RESOURCES		
5	What is the integrity of known maritime archaeological resources and how is it changing?	?	?
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?	II.	-
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?

Status:								
GOOD	GOOD/ FAIR	FAIR	FAIR/ POOR	POOR	UNDET.			
Trends:	Trends:							
	Conditions appear to be improving							
	Conditions do not apepar to be changing.							
	Conditions appear to be declining.							
?	Undetermined trend.							
N/A	Question	not app	licable.					

Generally rated Good to Fair

However

- water quality nearshore reduced in some areas and during some seasons by inputs of nutrients and contaminants; warnings/ closures due to pathogens or biotoxins
- History of trawl fishing offshore has reduced habitat quality offshore



		N/A Que	estion not applicat
#	Questions/Resources	Offshore Rating	Nearshore Rating
WATI	ER .	9	
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?		E
2	What is the eutrophic condition of sanctuary waters and how is it changing?	<u> </u>	
3	Do sanctuary waters pose risks to human health?	?	?
4	What are the levels of human activities that may influence water quality and how are they changing?	E.	?
HABI			
5	What is the abundance and distribution of major habitat types and how is it changing?	?	_
6	What is the condition of biologically-structured habitats and how introduced changing?	?	_
7	What are the contaminant concentrations in sanctury habitats and how are they changing?		E
8	What are the levels of human activities that may influence habitat quality and how are they changing?		?
LIVIN	G RESOURCES		
9	What is the status of biodiversity and how is it changing?	?	?
10	What is the status of environmentally sustainable fishing and how is changing?	E.	
11	What is the status of non-indigenous species and how is it changing?	_	
12	What is the status of key species and how is it changing?	_	-
13	What is the condition or health of key species and how is it changing?		-
14	What are the levels of human activities that may influence living resource quality and how are they changing?		E
MARI	TIME ARCHAEOLOGICAL RESOURCES		
15	What is the integrity of known maritime archaeological resources and how is it changing?	?	?
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?		_
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?

Estuarine - Elkhorn Slough



Generally rated Fair to Poor

Long history of human activity and alteration has caused

- increased inputs of nutients and pollutants
- high rates of erosion and habitat conversion
- high percentage of nonnative species



		N/A	Question not	applicable.
#	Questions/Resources			Estuarine Rating
WAT	ER			
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?			
2	What is the eutrophic condition of sanctuary waters and how is it changing?			-
3	Do sanctuary waters pose risks to human health?			?
4	What are the levels of human activities that may influence water quality and how are they changing?			?
HAB	ITAT			
5	What is the abundance and distribution of major habitat types and how is it changing?			
6	What is the condition of biologically-structured habitats and how is it changing?			
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?			
8	What are the levels of human activities that may influence habitat quality and how are they changing?			_
LIVIN	NG RESOURCES			
9	What is the status of biodiversity and how is it changing?			?
10	What is the status of environmentally sustainable fishing and how is it changing?			
11	What is the status of non-indigenous species and how is it changing?			_
12	What is the status of key species and how is it changing?			
13	What is the condition or health of key species and how is it changing?			?
14	What are the levels of human activities that may influence living resource quality and how are they changing?			?
MAR	RITIME ARCHAEOLOGICAL RESOURCES			
15	What is the integrity of known maritime archaeological resources and how is it changing?			?
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?			_
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?			-

Maritime Archaeological Resources

Trends: Conditions appear to be improving Conditions do not appear to be declining. 7 Undetermined trend. N/A Question not applicable.

Generally rated Good to Fair

- Non-renewable resources that are easily damaged
- Very little directed study to assess condition
- Resources containing hazardous material continue to deteriorate



		N/A Question not applicable.					
#	Questions/Resources	Offshore Rating	Nearshore Rating	Estuarine Rating			
WATI	ER	rating	rating	rating			
1	Are specific or multiple stressors, including changing oceanographic and atmospheric conditions, affecting water quality?						
2	What is the eutrophic condition of sanctuary waters and how is it changing?						
3	Do sanctuary waters pose risks to human health?						
4	What are the levels of human activities that may influence water quality and how are they changing?						
HABITAT							
5	What is the abundance and distribution of major habitat types and how is it changing?						
6	What is the condition of biologically-structured habitats and how is it changing?						
7	What are the contaminant concentrations in sanctuary habitats and how are they changing?						
8	What are the levels of human activities that may influence habitat quality and how are they changing?						
LIVING RESOURCES							
9	What is the status of biodiversity and how is it changing?						
10	What is the status of environmentally sustainable fishing and how is it changing?						
11	What is the status of non-indigenous species and how is it changing?						
12	What is the status of key species and how is it changing?						
13	What is the condition or health of key species and how is it changing?						
14	What are the levels of human activities that may influence living resource quality and how are they changing?						
MARI	TIME ARCHAEOLOGICAL RESOURCES						
15	What is the integrity of known maritime archaeological resources and how is it changing?	?	?	?			
16	Do known maritime archaeological resources pose an environmental hazard and is this threat changing?		-	_			
17	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?	_			

Condition Reports Structure

- Site History & Resources
- Pressures (Stressors & Issues) on the Sanctuary
- Status & Trends (State) of Sanctuary Resources
- Sanctuary's Response to Pressures.
- Literature Cited
- Appendices Explanation of Standardized Questions Report Development and Review Process



Response to Pressures

- Runoff of pollutants and contaminants
 - Water quality action plans
 - Volunteer water quality monitoring programs
- Marine Debris
 - Beach COMBERS
 - Identification and removal of lost fishing gear
- Vessel traffic
 - New vessel traffic routes
- Non-native species
 - Research project monitoring and removing Undaria











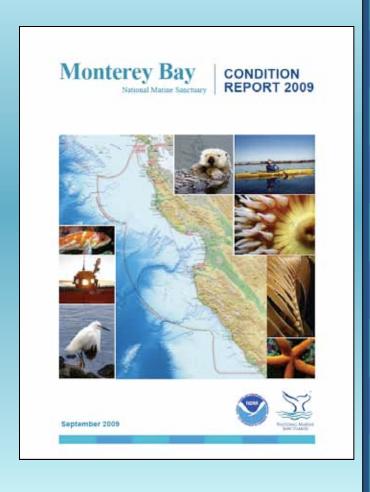
Summary

- First report to summarize condition and trends in marine resource of the Monterey Bay sanctuary
- Illustrated many areas where more data are needed
- Commulative impacts are common and need to be better understood
- Population growth and emerging issues, such as climate change, could be significant
- Continued emphasis on collaborative solutions
- Expect revision in 5 years



Release of Report

- Electronic version of report available on National Marine Sanctuary program website (as of 10/1/09) http://sanctuaries.noaa.gov/science/condition/mbnms/
- Announcement and link to report on MBNMS and SIMoN websites
- Hard copies will be available in approximately 3 weeks.





Monterey Bay

National Marine Sanctuary

CONDITION REPORT 2009









September 2009

West Coast Region 'Report Card'

Status:									
GOOD	GOOD/ FAIR	FAIR	FAIR/ POOR	POOR	UNDET.				
Trends:									
	Conditions appear to be improving								
	Conditions do not apepar to be changing.								
	Conditions appear to be declining.								
?	Undetermined trend.								
N/A	Question not applicable.								

Г		West Coast Region							
	Status of Resources			Gulf of the Farallones		Monterey Bay			
			Cordell Bank	Coastal and Offshore	Estuarine and Lagoon	Offshore	Nearshore	Estuarine	Channel Islands
W	ATER ATER A								
Ľ		?	?	-	?		Е		?
2	What is the eutrophic condition of sanctuary waters and how is it changing?			?	?	E	<u> </u>		-
3	Do sanctuary waters pose risks to human health and how are they changing?	-		-	?	?	?	?	-
4	What are the levels of human activities that may influence water quality and how are they changing?	-	?				?	?	
H.	ABITAT								
į	What is the abundance and distribution of major habitat types and how is it changing?		?		-	?		ш	?
6	What is the condition of biologically structured habitats and how is it changing?	?	?	?	E	?	-		-
7	, What are the contaminant concentrations in sanctuary habitats and how are they changing?		?		?		Е	ш	
8	What are the levels of human activities that may influence habitat quality and how are they changing?				-		?	-	
LI	VING RESOURCES								
9	What is the status of biodiversity and how is it changing?	?			-	?	?	?	?
1	0 What is the status of environmentally sustainable fishing and how is it changing?								
1	1 What is the status of non-indigenous species and how is it changing?		?	-	?	-		-	,
1	2 What is the status of key species and how is it changing?	?		?	Б	-	-		
1	What is the condition or health of key species and how is it changing?	?			?		-	?	?
1	What are the levels of human activities that may influence living resource quality and how are they changing?				•		Е	?	- 6
M	MARITIME ARCHAEOLOGICAL RESOURCES								
1	5 What is the integrity of maritime archaeological resources and how is it changing?	?	?	?	?	?	?	?	В
1	is this threat changing?	-	?		-	ш	-	-	
1	What are the levels of human activities that may influence maritime archaeological resource quality and how are they changing?	?	?	?	?	?	?		

